### PATENT COOPERATION TREATY

Exm the INTERNATIONAL SEARCHING AUTHORITY

To: see form PCT/ISA/220			PCT		
			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis</i> .1)		
				(1 0 1 1 die 40015.1)	
			Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)	
	licant's or agent's file reference e form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below		
	rnational application No. T/GB2004/001741	International filing date (23.04.2004	day/month/year)	Priority date (day/month/year) 25.04.2003	
International Patent Classification (IPC) or both national classification and IPC					
HO	1J35/06				
Applicant CXR LIMITED					
1.	This opinion contains indications relating to the following items:				
	☐ Box No. I Basis of the op	pinion			
	☐ Box No. II Priority				
	☐ Box No. III Non-establishn	ment of opinion with rega	ard to novelty, inven	tive step and industrial applicability	
	☐ Box No. IV Lack of unity of	f invention			
	applicability; cli	ement under Rule 43 <i>bis</i> tations and explanations	s.1(a)(i) with regard to s supporting such st	to novelty, inventive step or industrial atement	
	☐ Box No. VI Certain docum				
		in the international app			
	☐ Box No. VIII Certain observa	ations on the internation	al application		
2.	FURTHER ACTION				
	If a demand for international preli written opinion of the International the applicant chooses an Authori International Bureau under Rule will not be so considered.	at Preliminary Examining ty other than this one to	) Authority ("IPEA"). he the IPEA and th	However, this does not apply where	
	If this opinion is, as provided abo submit to the IPEA a written reply months from the date of mailing of whichever expires later.	/ together, where approx	priate, with amendm	ents, before the expiration of three	
	For further options, see Form PC	T/ISA/220.	_	a6 05	
3.	For further details, see notes to F	form PCT/ISA/220.	03.	of 22 months from the priority date,	
Nom	N				
ivame	Name and mailing address of the ISA:		Authorized Officer		

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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2004/001741

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	Во	x No	o. I Basis of the opinion		
1.	<ol> <li>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</li> </ol>				
		ian	s opinion has been established on the basis of a translation from the original language into the following guage , which is the language of a translation furnished for the purposes of international search der Rules 12.3 and 23.1(b)).		
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:				
	ı		a sequence listing		
	[		table(s) related to the sequence listing		
	b. format of material:				
	[		in written format		
	[		in computer readable form		
	c. time of filling/furnishing:				
	[	<b></b>	contained in the international application as filed.		
	[	<b>-</b>	iled together with the international application in computer readable form.		
	[	<b>]</b> 1	urnished subsequently to this Authority for the purposes of search.		
3.	□	cop	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional ies is identical to that in the application as filed or does not go beyond the application as filed, as ropriate, were furnished.		
4.	Additional comments:				

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

Claims 1-4,36,37

Inventive step (IS)

Yes: Claims

No: Claims

38,39

Industrial applicability (IA)

Yes: Claims

1-60

No: Claims

2. Citations and explanations

see separate sheet



#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: US-A-5 633 907 (GRAVELLE ET AL) 27 May 1997 (1997-05-27)

D2: US-A-4 274 005 (YAMAMURA ET AL) 16 June 1981 (1981-06-16)

1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to this document): an electron source suitable for an x-ray tube or an x-ray scanner comprising electron emitting means (figure 2, reference 26), defining a plurality of electron source regions (along the conductors 26), an extraction grid defining a plurality of grid regions each associated with at least a respective one of the source regions (grid plates 28 and 29), and control means arranged to control the relative electrical potential between each of the grid regions and the respective source region (column 3, lines 52 to 60), so that the position from which electrons are extracted from the emitting means can be moved between said source regions (equivalent to changing the shape of the passing electron stream, see column 3, lines 58-59).

The subject-matter of claim 1 is thus anticipated by D1.

- 1.1 The subject-matter of claims 2-4 is also disclosed in D1 (see figure 3 for claims 2-3, and column 3, line 58 for claim 4, application of a bias negative voltage). The subject-matter of claims 36 and 37 is also anticipated by D1 (column 2, first lines).
- 2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 38 and 39 does not involve an inventive step in the sense of

#### International application No.

# VRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/GB2004/001741

Article 33(3) PCT.

The subject-matter of claims 38 and 39 differs from the disclosure of D1 in that the x-ray tube is part of an x-ray scanner, and that data sets are collected from detection means. These features, however, are generally known in the art (see for example, D2, column 3, last lines), and form part of normal design procedures.

- 3. Claims 51-53 contain references to the drawings. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.
- 4. Other objections should be taken into account:
- 4.1. Claim 24 is drafted in terms of a result to be achieved, without providing the technical features necessary for achieving this result. The requirements of Article 6 PCT are therefore not met.
- 4,2. Claim 27 seems redundant.
- 4.3. The 'emitting members' in claim 29 lack an antecedent, as in claim 1 only 'emitting means' are referred to.